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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467,243	12/20/1999	DONALD RUSSELL ELLIS	3384.0342-01	2120
22852 7	590 07/15/2004		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			YAO, KWANG BIN	
LLP 1300 I STREE	Γ, NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005		••	2667	7
			DATE MAILED: 07/15/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
· •	09/467,243	ELLIS ET AL.
Office Action Summary	Examiner	Art Unit
	Kwang B. Yao	2667
- The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address –
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 14 July This action is FINAL. Since this application is in condition for allower closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1,2 and 4-6 is/are pending in the appl 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1,2 and 4-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	, —	(770.440)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1, 2, 4-6 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line16, "Mc" is undefined; line 18, it is not clear what "M" refers to.

Claim 4, "said incoming and outgoing STM STS-W" lacks antecedent basis.

Claim Objections

2. Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The limitations in lines 1-3 of claim 2 have been already recited in lines 15-17 of claim 1.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 2, 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ashi et al. (US 5,721,727) in view of Chang et al. (US 5,920,412).

Ashi et al. discloses a communication system comprising the following features: as depicted in Fig. 2, regarding claim 1, at each terminal (30-1, ... 30-4), inserting an outgoing signal onto said first transmission line (ACTIVE PATH) along a first direction (CWW) of transmission defined from said terminal (30-1, ... 30-4) towards the first adjacent terminal (30-1, ... 30-4), inserting said outgoing signal onto said second transmission line (RESERVED PATH) along a second direction (CW) of transmission defined from said terminal (30-1, ... 30-4) towards a second adjacent terminal (30-1, ... 30-4); at each said terminal (30-1, ... 30-4), receiving an incoming signal over said first transmission line (ACTIVE PATH) from said first adjacent terminal (30-1, ... 30-4), along said first direction (CWW) of transmission, and from said second adjacent terminal (30-1, ... 30-4) along said second direction (CW) of transmission; and operating said plurality of communication terminals (30-1, ... 30-4) according to a unidirectional protection protocol upon detection of a failure condition in said incoming signal; regarding claim 4, wherein each of said incoming and outgoing STM STS-W comprises a

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plurality of virtual tributaries VT. See column 1-2, and 4-6. Ashi et al. does not disclose the following features: regarding clam 1, communicating information over a BLSR SONET line switched ring having a plurality of communication terminals connected over a first and a second transmission line, wherein said incoming signal comprises an incoming non-ATM STS-W and an incoming ATM STS-Mc multiplexed in an incoming STS-N, and said outgoing signal comprises an outgoing non-ATM STS-W and an outgoing ATM STS-Mc, multiplexed in an outgoing STS-N, where M+W=N, and N, M, and W are integers indicative of the rates of said respective signals; regarding claim 2, wherein said incoming signal is an incoming asynchronous transfer mode (ATM) STS-Mc and said outgoing signal is an outgoing ATM STS-Mc. Chang et al. discloses the following features: regarding clam 1, as depicted in Fig. 4, communicating information over a BLSR SONET line switched ring having a plurality of communication terminals connected over a first and a second transmission line (column 7, lines 15-47), wherein said incoming signal (16d) comprises an incoming non-ATM STS-W (28) and an incoming ATM STS-Mc (32) multiplexed (26) in an incoming STS-N, and said outgoing signal comprises an outgoing non-ATM STS-W (28) and an outgoing ATM STS-Mc (32), multiplexed (26) in an outgoing STS-N, where M+W=N, and N, M, and W are integers indicative of the rates of said respective signals; regarding claim 2, wherein said incoming signal (16d) is an incoming asynchronous transfer mode ATM STS-Mc (32) and said outgoing signal is an outgoing ATM STS-Mc (32). See column 9-16. It would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the system of Ashi et al., by using the features, as taught by Chang et al., in order to provide an efficient and improved service in the communication system. See Chang et al., column 1, lines 30-39.

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Allowable Subject Matter

5. Claims 4 and 5 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lu (US 5,815,490) discloses a SDH ring order path management.

Oka (US 5,757,774) discloses a network traffic protection system.

Goto (US 5,737,310) discloses a ring network system.

Yoshimura (US 5,712,846) discloses an order wire communication control method.

Ishibashi et al. (US 5,663,949) discloses a line protection switching system.

Lu (US 5,412,652) discloses a SONET ring subnetwork management method.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwang B. Yao whose telephone number is 703-308-7583. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H Pham can be reached on 703-305-4378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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KWANG BIN YAO
PRIMARY EXAMINER

Kwang B.

July 12/2004